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Attorney Docket No.: CYRL 19809 (100573-00055)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor : CYRULNIK, Reuven Avrohom
Serial No. : 10/519,305
Filed : 21 December 2004 (21.12.04)
Priority Date : 21 June 2002 (21.06.02)
Title : **System and Method for Noninvasive Diagnostic Imaging, Detection, and Identification of Substances by Microwave/RF Modulation of X-Rays and Applications in Treatment of Diseases Characterized by the Presence of Pathological Macromolecules or by the Need for Regeneration of Normal Tissue**

June 30, 2005

Commissioner For Patents
PO Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT AND
SUPPLEMENTAL 1449/PTO

S I R:

In order to comply with discretionary rules 37 CFR §§1.97 and 1.98, attached hereto is Form PTO-1449. The documents listed thereon contain information, which the Examiner may consider to be important in deciding whether to issue a patent in the instant application.

As this Statement is being filed prior to issuance of a first Office Action, no fee is due.

This Supplemental Information Disclosure Statement and Supplemental 1449/PTO is being submitted to remove Non-Patent document "Nonthermal Effects of Microwave Radiation on Mammalian Cells: Experimental and Theoretical Results. Stephen F. Cleary, Ph.D., Bioelectromagnetic Laboratory, Department of Physiology and Biophysics, Medical College of Virginia, Virginia Commonwealth University, Richmond, Virginia 23298". On information and belief, this represents an oral presentation that the author does not intend to publish.

The present Disclosure Statement is being submitted in compliance with 37 CFR §1.56 as an Examiner might consider any cited document important in deciding whether to allow the application to issue as a patent, but the citation of each document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner in the normal course of examination, will make an independent search and will determine the best prior art consistent with 37 CFR §1.104 (a), and in the course of such search will review for relevance every document cited on the attached form even if not initialed.

Early and favorable consideration is respectfully solicited.

Any fee due with this paper, not fully covered by an enclosed check, may be charged on Deposit Account 50-1290.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'T. Bean', is written over a horizontal line.

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Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

SUPPLEMENTAL FILING

U.S. Department of Commerce
Patent and Trademark Office

Application No. : 10/519,305
Filing Date : 21 December 2004 (21.12.04)
First Named Inventor: CYRULNIK, Reuven Avrohom
Group Art Unit :
Examiner Name :
Attorney Docket No. : CYRL 19809 (100573-00055)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 1 of 2

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document	Kind Code if known ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document Office ³ Number ⁴	Kind Code ⁵ (if known)	Country	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), data, page(s), volume-issue number(s), publisher, country, where published, source.	Applicant check here if English language translation attached T
		Datta, JI. American Medical Association 271:800('94). [Microwaves with x-rays to treat malignant brain tumors.]	
		Beardsley, T.A. A War Not Won. Scientific American Jan. '94:130 [Lack of significant improvement in overall cancer demise rate]	
		Webb, S. & Booth A. Absorption of Microwaves by Microorganisms. Nature 222:1199-1200 ('69) [Frequency selective-DNA]	
		Webb, S.J. Effects of Microwaves on Normal and Tumor Cells as Seen by Laser-Raman Spectroscopy. J. Microwave Power 11:138 '76	
		Grundler, W. and Keilman, F. Physical Review Letters. 51:1214 '83 [Strong frequency dependence on yeast prove nonthermal resonant microwave sensitivity in biology.]	
		Gandhi, o. Ed. Biological Effects and Medical Applications of Electromagnetic Energy. PP. 380-2. '90. Frequency Specific Effects.	
		Mickey, G.H. Electromagnetism and its Effect on the Organism. NY State J. Medicine 63:1935-42 ('63). [Frequency specific killing of viruses without affecting the host; chromosomal mutation]	
		West, B. and Regelson, W. Pulsed Radio Wave Effects on Tumor Growth, J. Microwave Power 11:176-7 ('76)	
		Baranski, S. and Czersk, Biological Effects of Microwaves. 70-71, 132-4 '76. Chromosomal Effects. Possible Genetic Effects and Influence of Microwave Radiation on Mitosis. Cellular Effects.	
		Klainer, S. and Frazer, J. Raman Spectroscopy of Molecular Species During Exposure to 100 MHz Radio-Frequency Fields. Ann NY ACAD Sci. 323-6 ('74) [Frequency effects on T-RNA]	
		Frohlich, H. The Biological Effects of Microwaves. Adv. Electron and Electron Physics 53:127-50 ('80) [Frequency specific effects on bacteria, yeast, viruses, protein metabolism, bone marrow, and Raman spectral absorption.]	
		Revzin, A. and Neumann, E. Conformation Changes in R-RNA Induced by [1 MHz] Electric Impulses. Biophys. Chem. 2:144-50 ('74).	
		Averbeck, D. Et al. Microwave [inter] Action in Cells With X-ray. J. Microwave Power 11:143 ('76).	
		Varma, M. and Raboulay. DNA Studies in Measuring Mutagenicity Caused by Non-Ionizing Radiation. Mutation Res: 31:386-92 ('75)	
		Greenebaum, V. et al. Long-Term Effects of Weak 45-75 HZ EM Fields on the Slime Mold. Technical Report, U. Wisconsin ('75)	
		Mittler, S. Non-Thermal Radiowaves and Genetic Damage in Drosophila, Proc. IEEE, 6 th Annual Meeting, Miami Beach.	
		Luczak, M. ET AL. Effect of Microwaves on Virus Multiplication in Mammalian Cells J. Microwave Power 11:173-4 ('76)	
		Webb, S. and Dodds, D. Inhibition of Bacterial Cell Growth by 136 GC Microwaves, Nature 218:374-5 ('68)	

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SUPPLEMENTAL 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <u>Sheet 2 of 2</u>	U.S. Department of Commerce Patent and Trademark Office	Application No. : 10/519,305
		Filing Date : 21 December 2004 (21.12.04)
		First Named Inventor: CYRULNIK, Reuven Avrohom
		Group Art Unit :
		Examiner Name :
		Attorney Docket No. : CYRL 19809 (100573-00055)

		Glaser, Z.R. Biomedical Aspects of Radio Frequency and Microwave Radiation. Science Policy Research Division, Lib. Congress	
		Sevastyanova, L. and Potapov. Resonance Effect in Biological Action of Microwave Radiation. IEEF Symposium, ('76)	
		Schliepake, Erwin, The Medical Use of Electrical high Frequencies. English Translation of 2 nd German Edition by R. King Brown, Actinic Press, London: '35	
		Karzmark, C.J. Advances in Linear Accelerator Design for Radiotherapy, Medical Physics 11:2, 105-128, '84.	

Examiner Signature		Date Considered	
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Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1⁶ if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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